a.) Amendments to the Claims

Claims 1-3 (Cancelled)

- 4. (Currently Amended) <u>A</u> The thermosetting resin composition according to claim 3 comprising:
 - (a) a maleimide composition having the structure:

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wherein:

m=1, 2 or 3

each R is independently selected from hydrogen or lower alkyl, and

X is a monovalent or polyvalent radical selected from the group

consisting of:

branched chain alkyl, alkylene or alkylene oxide species having from about 12 to about 500 carbon atoms,

aromatic groups having the structure:

$$z = \begin{bmatrix} 0 & & & \\ & & & \\ & & & \end{bmatrix}_{n}$$

wherein:

n = 1, 2 or 3

each Ar is a monosubstituted, disubstituted or trisubstituted aromatic or heteroaromatic ring having in the range of 3 up to 10 carbon atoms, and

Z is an unsubstituted branched chain alkyl, alkylene or alkylene oxide species having from about 12 to about 500 atoms in the backbone thereof,

or mixtures thereof;

(b) in the range of 0.2 up to 3 wt % of at least one free radical initiator, based on the total weight of the composition;

- (c) optionally, a diluent; and
- (d) in the range of 0.1 up to 10 wt% of at least one coupling agent, based on the total weight of the composition,

wherein the composition has a viscosity of from about 10 to about 12,000 centipoise.

- 5. (Currently Amended) The thermosetting resin composition according to claim 3 4, wherein the composition has a viscosity of from about 10 to about 2,000 centipoise.
- 6. (Currently Amended) The thermosetting resin composition according to claim 3 claims 4 or 5 comprising said diluent, wherein the diluent is selected from the group consisting of dimethylformamide, dimethylacetamide, N-methylpyrrolidone, toluene, xylene, methylene chloride, tetrahydrofuran, glycol ethers, methyl ethyl ketone or monoalkyl or dialkyl ethers of ethylene glycol, polyethylene glycol, propylene glycol or polypropylene glycol.

Claims 7-38 (Cancelled)

39. (Currently Amended) A method for adhesively attaching a first article to a second article, said method comprising:

(A) (a) selecting a die attach paste composition comprising in the range of about 10 up to 80 wt % of the thermosetting resin having the structure:

wherein:

m = 1, 2 or 3.

each R is independently selected from hydrogen or lower alkyl, and
X is a monovalent or polyvalent radical selected from the group

consisting of:

branched chain alkyl, alkylene or alkylene oxide species having from about 12 to about 500 carbon atoms,

aromatic groups having the structure:

wherein:

n = 1, 2 or 3

each Ar is a monosubstituted, disubstituted or trisubstituted aromatic or heteroaromatic ring having in the range of 3 up to 10 carbon atoms, and

Z is an unsubstituted branched chain alkyl, alkylene or alkylene oxide species having from about 12 to about 500 atoms in the backbone thereof,

or mixtures thereof;

(b) in the range of 0.2 up to 3 wt % of at least one free radical initiator, based on the total weight of the composition;

- (c) optionally, a diluent; and
- (d) in the range of 0.1 up to 10 wt% of at least one coupling agent, based on the total weight of the composition, and in the range of about 20 up to 90 wt % of a conductive filler;
- (B) applying said die attach paste composition according to claim 27 to said first article,
- (C) (b) bringing said first and second article into intimate contact to form an assembly wherein said first article and said second article are separated only by the adhesive composition die attach paste applied in step (a) (B), and thereafter,
- (D) (c) subjecting said assembly to conditions suitable to cure said adhesive composition die attach paste.

Claims 40-45 (Cancelled).

46. (Previously Amended) A curable composition comprising a maleimide compound,

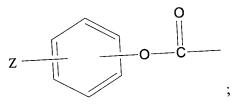
and a curing initiator selected from the group consisting of a free-radical initiator, a photoinitiator, and a combination of those,

the maleimide compound having the formula:

wherein n is 1 to 3,

R¹ is H or an alkyl group having 1 to 5 carbon atoms;

Ar is an aromatic group having the structure:



wherein Z is a high molecular weight branched chained alkyl, alkylene or alkylene oxide species having from about 12 to about 500 atoms in its backbone; and

Q is a linear or branched chain alkyl, alkyloxy, alkylene, or alkyleneoxy, species having up to about 100 atoms in the chain, which may contain saturated or unsaturated cyclic or heterocyclic substituents pendant from the chain or as part of the chain and in which any heteroatom present may or may not be directly attached to Ar; or

Q is a siloxane having the structure:

$$-(CR_{2}^{1})_{e}$$
 $-[SiR_{2}^{4}-O]_{f}$ $-SiR_{2}^{4}$ $-(CR_{2}^{1})_{g}$ $-$

wherein the R^1 substituent independently for each position is H or an alkyl group having 1 to 5 carbon atoms, the R^4 substituent independently for each position is an alkyl group having 1 to 5 carbon atoms or an aryl group, e and g are independently 1 to 10, and f is 1 to 50.

Claim 47 (Cancelled)